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LC. HAROLD J. PATTERSON

(Lc. Princess Margaret No. 2 X C. Charybdis "Var. Orchidhaven")

H. Patterson & Son, Bergenfield, N. J.

Orchidhaven

CATALOGUE Number Twenty-Five



Orchidhaven

Our hybrids enjoy widespread acclaim for their natural vitality. Scientific knowledge and practical experience at ORCHIDHAVEN are combined in selecting parents with maximum vigor and growing strength. From every part of the world, we hear from growers who are delighted by the unusual number of flowerings on a single stem. Our files contain enthusiastic letters from satisfied customers who compliment ORCHIDHAVEN HYBRIDS for fine growth, productivity, and seasonal blooming as well as for color, texture and size. This list contains full information about exciting new crosses and established favorites.

We ship our plants to every part of the United States and its possessions, Canada, Central and South America, Cuba, Puerto Rico, West Indies, England and the Continent, Philippine Islands and Siam. Packing is free of charge and prices are F.O.B. Bergenfield, N. J., in U. S. Dollars.

H. PATTERSON & SONS

332 East Main Street, Bergenfield, N. J.

TELEPHONE: DUmont 4-0460

Cattleya and Laeliocattleya Seedlings

Cross No.	Name, Parentage and Description	Size	Each
591	Lc. DeLoris Ziegfeld (C. R. Cadwalader X Lc. Princess Margaret No. 2)		
	This is a remake with identical parents of our original Lc. DeLoris Ziegfeld (No. 100). We have made this cross again and again because of popular demand. Season is May and June.	2½" Pots	\$ 5.00
		3" Pots	\$10.00
		3½" Pots	\$14.00
		4" Pots	\$18.00
		4½" Pots	\$22.00
		5" Pots	\$25.00
		5½" Pots	\$30.00
		6" Pots	\$35.00
593	Lc. Arthur Patterson (Lc. Princess Margaret No. 2 X Lc. Oliver Lines)		
	This is a remade cross made with the same original Lc. Princess Margaret No. 2 and Lc. Oliver Lines. Chromosome count was made by Cornell and all of the seedlings counted were tetraploids. The plants which have bloomed out of the earlier lot have been very outstanding. The color is dark and growth very strong. Size is large with very good form. Flower texture is extremely heavy. Season of bloom is June.	3" Pots	\$10.00
		3½" Pots	\$14.00
		4" Pots	\$18.00
594	Lc. Harold J. Patterson (Lc. Princess Margaret No. 2 X C. Charybdis "Var. Orchidhaven")		
	We have remade this cross again and again with the same original parents because of its outstanding success. The flowers are extremely large, very well shaped, dark colored and of great texture. Growth is exceptional and season of bloom is June with a second crop through the fall and winter if substantial sunlight is given. Some plants have bloomed with as many as four flowers on one stem, the first time blooming with a great many of the flowers measuring better than 7 inches across. Chromosome count was also made by Cornell and results were: part of the seedlings are triploids and part are tetraploids. Quantity is limited.	2½" Pots	\$ 5.00
		3" Pots	\$10.00
		3½" Pots	\$14.00
		4" Pots	\$18.00
		4½" Pots	\$22.00
		5" Pots	\$25.00
		5½" Pots	\$30.00
		6" Pots	\$35.00
		6½" Pots	\$40.00
		7" Pots	\$50.00
595	C. Memoria Pilila Camacho (C. St. Petersburg X C. Mossiae "Wagnerii")		
	A number of years back we bloomed this particular cross and after seeing the very fine results the cross was remade with the same original parents. Flowers are very large, well shaped and of heavy texture. Blooms are outstanding because of their extremely heavy substance. Flowering season is April, May and June making it a very favorable hybrid for Easter and through the wedding months.	3" Pots	\$10.00
		3½" Pots	\$14.00
		4" Pots	\$18.00
597	Lc. DeLoris Ziegfeld (Lc. Princess Margaret No. 2 X C. R. Cadwalader)		
	Please refer to description under No. 591.	2½" Pots	\$ 5.00
		3" Pots	\$10.00
		3½" Pots	\$14.00
		4" Pots	\$18.00
		4½" Pots	\$22.00
		5" Pots	\$25.00
		5½" Pots	\$30.00
		6" Pots	\$35.00

Cross No.	Name, Parentage and Description	Size	Each
602	Lc. Alfred J. Proebstle (Lc. Windermere "Var. Orchidhaven" X Lc. Princess Margaret No. 2) Two outstanding and very much proven parents have been used to execute this excellent cross. This cross is also a remake of an earlier and very small batch which bloomed only recently. Flowers are fine, well shaped, heavy textured and dark in color. Flowering season is late winter and early spring.	2" Pots 2½" Pots 3" Pots 3½" Pots	\$ 4.00 \$ 5.00 \$10.00 \$14.00
610	Lc. George Baldwin (C. Enid "Variety Orchidhaven" X Lc. Princess Margaret No. 2) Please refer to description under No. 425.	1¾" Pots 2" Pots 2½" Pots 3" Pots 3½" Pots 4" Pots 4½" Pots 5" Pots 5½" Pots 6" Pots	\$ 3.00 \$ 4.00 \$ 5.00 \$10.00 \$14.00 \$18.00 \$22.00 \$25.00 \$30.00 \$35.00
614	Lc. Raphaelcita X C. Mossiae "Bergenfield" Lc. Raphaelcita was used in this cross as it is an extremely colorful hybrid. This should result in a very much glorified Mossiae-type hybrid for the Easter season.	2" Pots 2½" Pots 3" Pots	\$ 4.00 \$ 5.00 \$10.00
625	Lc. Hertha "Variety Orchidhaven" X Lc. Princess Margaret No. 2) We have used our very excellent Lc. Hertha and our Lc. Princess Margaret No. 2 which should produce a very outstanding hybrid. Color expected is dark, shape should be fine as both parents are very well shaped. Season of bloom should be spring. Our quantity in this cross is very limited.	2" Pots 2½" Pots 3" Pots	\$ 4.00 \$ 5.00 \$10.00
627	C. Dorothy Mackaill X C. William B. Olsen The need for a Pure White Orchid for Easter and the wedding season prompted us to make this particular hybrid of two fine whites which have bloomed for us for a period of seven or eight years. Both are extremely strong growers and the progeny should certainly yield fine textured, excellent Pure White flowers. We have this cross in a limited quantity.	2" Pots 2½" Pots 3" Pots	\$ 4.00 \$ 5.00 \$10.00
629	Lc. Altesse (Our Finest) X Lc. Bergenfield "Var. Gigantea" (Catalogue Cover Variety) Two proven parents were used in this cross. Both are excellent growers. Expected blooming season is February, March and April.	2" Pots 2½" Pots	\$ 4.00 \$ 5.00
630	Lc. Oliver Lines X C. R. Cadwalader Two highly colored strong growing dark hybrids were used to execute this cross. We expect fine colored June blooming hybrids of this particular union. Both parents are extra strong growers with heavily textured, well shaped flowers.	2" Pots 2½" Pots 3" Pots 3½" Pots	\$ 4.00 \$ 5.00 \$10.00 \$14.00

Cross No.	Name, Parentage and Description	Size	Each
639	C. Mrs. Frederick Knollys XXXXXX X C. Ardmore "Yvonne Adair Variety"		
	Two excellent forms of white colored lip parents were used here in an effort to produce a fine paper white hybrid with a good dark lip for late spring. This is the season this type of flower is very much in demand.	1¾" Pots 2" Pots	\$ 3.00 \$ 4.00
640	Lc. DeLoris Ziegfeld (Lc. Princess Margaret No. 2 X C. R. Cadwalader)		
	Please refer to description under No. 591.	1¾" Pots 2" Pots 2½" Pots 3" Pots 3½" Pots 4" Pots 4½" Pots 5" Pots 5½" Pots 6" Pots	\$ 3.00 \$ 4.00 \$ 5.00 \$10.00 \$14.00 \$18.00 \$22.00 \$25.00 \$30.00 \$35.00

Mature Plants

16	C. Sweet Sixteen (C. Princess Royal X C. Marjorie)		
	A strong growing Cattleya for September and October unexcelled for flower production. The flowers are large and have good keeping qualities. The plant is of the compact type having small rhizomes.	6" Pots	\$20.00
42	C. Raphaellaurea (C. Raphaelii X C. Ballaurea)		
	Here again the parent C. Raphaelii lends itself to make a fine fall Cattleya of good shape and substance. Blooming time is September and October.	5" Pots	\$15.00
46	C. Cherokee (C. Raphaelii X C. Ballantineana)		
	Two very old and very dependable hybrids have been united here. The results have been most gratifying as a strong growing, well shaped hybrid is produced which blooms during September, October, November and December.	5" Pots 6" Pots	\$15.00 \$20.00
51	C. Tappen (C. Raphaelii X C. Elizabeth S. Prentiss)		
	A highly colored and strong growing fall blooming Cattleya has resulted from uniting these two exceptional parents. We have used this particular cross in making our very excellent hybrid Lc. Walter Winchell. Flower production is exceptional.	5" Pots 6" Pots	\$15.00 \$20.00
97	C. Dionysius Alba (C. Fabia Alba X C. Gigas)		
	This is a remake of an old dependable White Colored Lip cross, blooming during August, September and October. The lip is dark and the flowers are of heavy texture. We have used this cross many times for hybridizing.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
98	C. R. Cadwalader X C. R. Cadwalader		
	A need for late spring flowers prompted remaking this particular cross. Many highly colored hybrids of good character have resulted.	5" Pots 6" Pots	\$15.00 \$20.00

Cross No.	Name, Parentage and Description	Size	Each
100	Lc. DeLoris Ziegfeld (Lc. Princess Margaret X C. R. Cadwalader) A great many of the growers through the States have seen the result of the union of these two exceptional parents. Originally we sold a large number of this cross in seedling stages and we have received some grand compliments from the results. The season is May and June. This plant is by far the strongest grower we have at Orchidhaven. The flowers are always well shaped and highly colored.	5" Pots 5½" Pots 6" Pots	\$25.00 \$30.00 \$35.00
103	Lc. Eugenie (Lc. Schroederae X C. Dionysius Alba) We herewith present an exceptionally fine White Colored Lip which has a blooming season of October through December. The flower is very large and the plant is an extremely strong grower. In its particular class flower production is unequalled.	5" Pots 6" Pots	\$25.00 \$30.00
107	C. Maggie Raphael (C. Dowiana Aurea X C. Trianae) Little need be said about this old stand-by. It has always proved to be a fine dark hybrid for the months of November and December. The plant is a fine grower and produces a great number of flowers.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
114	Lc. Nora Fontaine (Lc. Norvic X L. Purpurata) The union of these particular parents produces a paper white hybrid with an intensely dark lip. This hybrid is an extra strong grower and is very floriferous.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
116	Lc. Clint McDade (Lc. Eva Shill X C. Mt. Royal) Many highly colored, well shaped hybrids are produced by this cross. It is an exceptionally strong grower and flowers are very numerous and large.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
150	Lc. Oliver Lines (Lc. Princess Margaret X Lc. Sargon) This cross has won several Awards of Merit at different shows. Shape is excellent, color very dark, texture very heavy.	5" Pots 5½" Pots 6" Pots	\$25.00 \$30.00 \$35.00
158	C. Intertexta "Juliette" (C. Warnerii "Alba" X C. Mossiae "Wagnerii") This is a remake of a very dependable Pure White which has a long blooming season, November through April. It is a fine grower and is also very floriferous.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
207	Lc. Ellen Hart Alba (Lc. Jane Dane X C. Lady Alexander Alba) The quest for a strong growing white dark colored lip of good quality prompted this cross. The results have been very satisfactory. Flowers are heavy textured and are paper white. Season is September through December.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
218	Lc. Edith Dorp (Lc. Jane Dane X Lc. Schroederae) This is a paper white hybrid with an exceptionally dark colored lip. Growth is tremendous and we have had some very fine form which we have used in the different flower shows. Texture is very good and season of bloom is a long one, extending from September into January.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
240	C. Marion Davies (C. Gravesiana X C. Edithae) A winter-spring pure white hybrid of heavy texture is produced here. Many outstanding show quality flowers have been produced.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
248	C. Ethel Bishop (C. S. E. Endicott X C. Barbara Dane) This hybrid has done very well where it was shown having received several awards. It is a well shaped White which blooms during September, October and November. Growth of plant is very good and the plant gives a very good account of itself.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
288	C. Belgica (C. Remy Chollet X C. Enid) These two hybrids make the much desired and extremely strong growing C. Belgica, a winter flowering hybrid of exceptional texture.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
319	C. Oritani Alba (C. Enid Alba X C. Princess Royal Alba) This is a repeat cross of an old dependable White Colored Lip. Two very select parents were used and the result has been most gratifying. The hybrid blooms during September, October, November and December. Flower production is extremely good. Many of the single lead plants make two growths in a year and it isn't at all uncommon to have four or five flowers per stem. The color is an outstanding paper white with highly colored lips and the shape is always good.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
340	C. Daniel Ryerson (C. Woltho X C. Remy Chollet) A very fine winter Cattleya blooming in November and December is the result of the union of these excellent parents. The flowers are well shaped and have very dark lips. The plant is a strong grower.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
399	C. Helen Durfee (C. Clementine Goldfarb X C. Ben Nevis) This is a very useful white Cattleya to have during the months of September, October and November. This season is a busy one for the commercial man and is a most enjoyable time to have flowers for the amateur flower shows. All of the plants are excellent growers having well shaped flowers of good texture.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
400	C. Frances Carlsen (C. S. E. Endicott X C. Clementine Goldfarb) The season for this hybrid is about the same time as No. 399. The plants are all very fine growers and it is not unusual for a stem to bear as many as four flowers.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
404	Lc. Ruth Jonson (C. Admiration X Lc. Altesse "Var. Orchidhaven") An abundance of C. Remy Chollet in this cross goes a long way in making it a fine hybrid. The flowers are very dark and well shaped and the plants grow like either one of the parents.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
419	C. St. Petersburg (C. Clementine Goldfarb "Osmers Var." X C. Eucharis "Var. Orchidvale") C. Clementine Goldfarb "Osmers Variety" is a proven pure white which is an extremely vigorous grower. It is unexcelled in flower production and always makes two growths on single lead plants. The C. Eucharis which was used was the very best procurable. Season is January, February, March and April.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
420	C. St. Petersburg (C. Eucharis "Var. Orchidvale" X C. Clementine Goldfarb "Osmers Var.") Please refer to description under No. 419.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
424	Lc. Louella Parsons (Lc. Jane Dane X C. Gigas "F.M.B.") An excellent White Colored Lip producing wonderful blooms during the months of June and July.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
425	Lc. George Baldwin (Lc. Princess Margaret X C. Enid) Little need be said on behalf of this fine hybrid. In its short existence it has won a great many awards. Flowers are always large and very well shaped. The substance is excellent and color is mostly dark.	5" Pots 5½" Pots 6" Pots	\$25.00 \$30.00 \$35.00
426	C. Florence Patterson (C. Clementine Goldfarb X C. Rita Sladden) This cross is a very strong growing pure white for fall and early winter. The flowers are large, well formed and of very good substance.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
428	Lc. Alten (Lc. Altesse "Var. Orchidhaven" X C. Enid "Var. Orchidhaven") This cross is an exceptionally strong grower producing extra large flowers which are much darker than most Enids. The lip is very dark and large. Season of bloom is January, February and March.	5" Pots 5½" Pots 6" Pots	\$25.00 \$30.00 \$35.00
431	Lc. Jack McCauley (C. Treda X Lc. Altesse) The presence of C. Leda in C. Treda goes far in imparting very high color into this hybrid. It is a very fine grower and blooms during the winter.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
435	Lc. John Greendyke (Lc. Altesse X C. Cherokee) A mid-winter to spring hybrid of high coloring has been the result here. Supply is very limited.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
436	Lc. Ann Morgan (Lc. Dupresan X C. Magowa) An extremely strong growing hybrid of fine coloring especially in the labellum is the result of this crossing. Season of bloom is November and December making it very valuable commercially for the Thanksgiving and Christmas markets.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
440	Lc. Wallace Otaguro (Lc. Helen Wilmer "Var. Orchidhaven" X C. Leda) Dark, large flowers of great substance and fine shape are the result of this crossing. Season is Easter.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
441	C. Enid (C. Mossiae X C. Gigas) No collection would be complete without C. Enid as it insures the grower and amateur a dependable supply. Season is variable.	5" Pots 5½" Pots 6" Pots	\$25.00 \$30.00 \$35.00
451	C. Empress Belle (C. White Empress "F.C.C.-R.H.S." X C. Belle Jones) This is an excellent growing pure white which blooms from February through April.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
455	C. Clotho (C. Enid X C. Trianae) This hybrid is an excellent grower producing very fine mid-winter flowers.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
456	C. Iva Withers (C. Remy Chollet X C. Cherokee) The season for this fine hybrid is November and December and all of the plants are very strong growers.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
460	Lc. Byron Palmer (C. Mahopac X Lc. Altesse) The strong growing character of both parents results in vigorous hybrids blooming during November and December.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
463	Blc. Antoinette Driscoll (Blc. Eva Patterson "Var. Orchidhaven A.M." X C. Treda "Finest Dark") This hybrid is one of the outstanding Blc. of today. It is a firm, bold flower blooming from December through February.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
468	Lc. Vanity (C. Hardyana Alba X Lc. Jane Dane) Union of these two very fine parents results in an excellent white with colored lip for September, the month of weddings.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
470	C. Jeanne Patterson (C. Lady Veitch X C. Emily Shill) An excellent growing pure white Cattleya blooming February through April.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
471	C. Jeanne Patterson (C. Emily Shill X C. Lady Veitch) Please refer to description under No. 470.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
477	C. Helen Patterson (C. Rita Sladden X C. Barbara Dane) Season of blooming is the important part of this fine cross being November and December. It is a heavy textured pure white.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
478	Lc. George Baldwin (Lc. Princess Margaret "Extra Fine Var." X C. Enid) Please refer to description under No. 425.	5" Pots 5½" Pots 6" Pots	\$25.00 \$30.00 \$35.00
483	Lc. Coleman Berwick (Lc. Hertha X C. Belgica) Winter is the most desirable for most Cattleyas and this cross assures an abundance of flowers for this season. Flowers are large and dark with very fine form.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
484	Lc. Carl Swope (Lc. Hillary "F.C.C.-R.H.S." X C. Enid) A fine cross producing one of the outstanding hybrids. Growth is exceptional and the flowers are very large and dark.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
487	C. Maureen Orcutt (C. Lady Alexander Alba X C. Hope Dillon) A need for a very free growing white for the fall wedding season prompted this cross. Flowers are paper white in the petals and sepals with very brilliant lips.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
489	C. Maureen Orcutt (C. Hope Dillon X C. Lady Alexander Alba) Please refer to description under No. 487.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
490	Lc. Imperial Sugar (Lc. Hillary "F.C.C.-R.H.S." X C. Mt. Royal) In make-up this cross is very similar to No. 484 except that the use of Mt. Royal on one side tends to make the blooming date about one to two months later. The infusion of Dowiana in the Raphaelii which in turn made the Mt. Royal imparts fine color to the resultant hybrid.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
493	C. Vanir (C. Gravesiana Alba X C. Mossiae "Wagnerii") Our quest for a good growing white for the Easter season is fulfilled with this cross.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
494	C. Mlle. Louise Pauwels (C. Edithae No. 1 X C. Intertexta "Juliette") A very valuable pure white which blooms during March, April and May.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
495	C. Margaret Hess Alba (C. Mossiae "Reineckiana" Young's Var. X C. Priscilla Alba) We have raised several batches of this fine hybrid with very satisfactory results. Blooming time is March, April and early May.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
496	C. Joan Clarke (C. Ann Faller X C. Mossiae "Wagnerii" Var. Orchidhaven) Here again we have another fine quality, spring blooming pure white for the months of March, April and May.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
498	C. Gravesiana (C. Speciosissima Alba "F.C.C." X C. Mossiae "Wagnerii") Season of this fine pure white is winter and spring.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
499	C. Empress Frederick (C. Dowiana X C. Mossiae "Brilliantissima") We have repeated this cross with the finest parents at our disposal.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
505	C. Trimos (C. Mossiae No. 24 X C. Trianae "Gold Lip") An old dependable cross for February and March. The plants grow very well and the flowers are of medium color with good texture.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
508	C. Mem. Alice Baldwin (C. Edithae No. 1 X C. Trentino) One of the outstanding features of this particular cross is the exceptionally strong sepals imparted by the use of C. Trentino.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
512	Bc. Imperialis (Bc. Cliftonii "Magnifica" X C. Mossiae "Bergenfield") Mossiae "Bergenfield" is a very dark Mossiae and only our very finest parents were used.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
513	C. Gravesiana (C. Speciosissima Alba "F.C.C." X C. Mossiae "Wagnerii") Please refer to description under No. 498.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
521	Lc. Army Freeman (Lc. Cassandra X Lc. Oliver Lines) An exceptional hybrid for late fall and early winter is the result here. Both parents are very substantial growers bearing flowers of outstanding quality which are dark with large lips.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
522	Lc. Army Freeman (Lc. Cassandra X Lc. Oliver Lines) Please refer to description under No. 521.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
523	Blc. Clara Esslinger (Bc. Cliftonii "Magnifica" X Lc. Dupresan) A quality hybrid of very firm texture for the spring months of March, April and May is the result of this union. Flowers are of good form, large and have big lips.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
525	Lc. Eugenie X C. May Markell A strong growing white with a colored lip for November, December and January. Flowers are always large and have very good form.	5" Pots 5½" Pots 6" Pots	\$30.00 \$35.00 \$40.00
547	C. Marion Patterson (C. Marion Davies X C. Trianae "Broomhills Var.") A white hybrid which blooms during the months of March and April making a very valuable Easter white. Growth is strong and the plants are excellent producers. The blooms are large and of extremely firm texture with a minimum amount of yellow in the throat.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
548	C. Evamay Patterson (C. Intertexta "Juliette" X C. Trianae "Broomhills Var.") All of the plants have come up to our full expectations. This is a fine white Cattleya, well shaped, large sized, excellent in texture and a strong grower. The most important asset of this hybrid is the fact that it blooms during early spring through Easter.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
549	C. Trianae "A.C. Burrage" X Lc. Windermere "A.M." This hybrid is a wonderful addition to the orchid world. It has very fine form and blooms during December and January, making it valuable for the holiday season.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
553	C. Yvonne Adair (C. Clementine Goldfarb X C. Helen P. Dane) An exceptionally strong growing and very large white for November and December. Flowers are paper white with very fine form and it is not unusual to see as many as four blooms on a stem.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
554	Lc. American Security (C. Royana X Lc. Princess Margaret) A great hybrid for the months of June and July with a few plants blooming as late as November. Growth is most outstanding and the season, of course, is very advantageous with the main crop blooming directly after Mossiae. Lc. American Security is very similar to Lc. George Baldwin except that for the most part it is a much darker flower and possibly a little better in shape.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
555	Lc. Joseph Medill Patterson (Lc. Princess Margaret X C. Tappan) We are using Princess Margaret in a number of different ways with very strong growing hybrids only. This particular cross yields an exceptionally strong growing hybrid for late fall of that dependable Princess Margaret type.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
561	Lc. Mary Kolb (Lc. Cassandra "F.C.C." X C. Trianae "The Premier") A very fine hybrid for the Christmas holiday season. It is a strong grower producing exceptional flowers of great texture.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
563	Lc. Robert Ring (Lc. Integrity X C. Trianae "Orange Lip Variety") The months of December and January are scarce months for Cattleyas. We have covered this particular period with this hybrid which produces fine blooms of great substance.	5" Pots 5½" Pots 6" Pots	\$15.00 \$20.00 \$25.00
568	Lc. Bou Philippo (Lc. Windermere "A.M." Variety X C. Mossiae "Oliver Lines") One of the main reasons for the great value in this cross is its particular season, we have always cut a great number of flowers for Easter. It can be handled a good deal like Mossiae and its grand performance as far as season, quantity of flowers and fine growing qualities are concerned, has prompted us to remake this cross again and again.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
569	Blc. Sherman Billingsley (Blc. Eva Patterson X C. Belgica "A.M." Variety) Our expectations here have been fulfilled with a fine hybrid for December and January thus covering the important holiday season. It is a very vigorous grower and the flowers are large and have excellent texture.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
570	Lc. Ida S. Myers (Lc. Windermere "A.M." X C. Enid XXXX) Lc. Ida S. Myers produces large, dark and well shaped flowers with excellent substance. The plants are all very strong growers.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
571	Lc. Carol Channing (Lc. Derrynane "Var. Henrietta Patterson" X C. Royana "Extra Fine") Using these two exceptional hybrids makes Lc. Carol Channing a fine outstanding Laeliocattleya.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00
572	Lc. George Lewis (Lc. Helen Wilmer "A.M." Variety X Lc. Altesse) Lc. George Lewis is a very strong grower producing dark flowers of fine texture, good form and excellent quality with a blooming season from December through March.	5" Pots 5½" Pots 6" Pots	\$20.00 \$25.00 \$30.00

Cross No.	Name, Parentage and Description	Size	Each
577	Lc. George Baldwin (Lc. Princess Margaret No. 2 X C. Enid "Variety Orchidhaven")		
	Please refer to description under No. 425.	5" Pots	\$25.00
		5½" Pots	\$30.00
		6" Pots	\$35.00
	C. Admiration (C. Maggie Raphael X C. Remy Chollet)		
	Fine winter hybrid. Large, well shaped, heavy textured flowers in mostly dark colors. An exceptionally fine grower.	5" Pots	\$20.00
		5½" Pots	\$25.00
		6" Pots	\$30.00
	Lc. Charles Futterman (Lc. Callistoglossa X C. Clotho)		
	This is a strong growing hybrid which is very free flowering.	5" Pots	\$15.00
		5½" Pots	\$20.00
		6" Pots	\$25.00
	C. Frank Baker (C. Enid X C. Monarch)		
	A dependable winter hybrid of fine quality. Color is mostly dark and it is very floriferous.	5" Pots	\$15.00
		5½" Pots	\$20.00
		6" Pots	\$25.00
	Lc. Altesse (Lc. Britannia X C. Remy Chollet)		
	We have used this hybrid many times in hybridizing. Shape, color and size are always excellent. The plant is also a very fine grower.	5" Pots	\$20.00
		5½" Pots	\$25.00
		6" Pots	\$30.00
	Lc. Aphrodite (C. Mendelii X L. Purpurata)		
	This is a fine strong growing spring hybrid. It is very floriferous and the flowers are mostly pastel. Some are almost white colored lip.	5" Pots	\$15.00
		5½" Pots	\$20.00
		6" Pots	\$25.00

Hybrid Cattleya Back Bulbs

We have to offer for sale all year round, Hybrid Cattleya Back Bulbs representing a cross section of our choice commercial cutting varieties. All of the back bulbs are closely inspected to see that they have live "eyes" and are available in all seasons as we complete our potting. You can buy with the assurance of establishing some exceptionally fine plants with these back bulbs.

Prices

\$1.00 each for "Backs" as they come
 \$2.00 each for Selected Pieces
 \$5.00 each and up for extra fine choice varieties

Non-Warranty

WE, H. Patterson & Sons, Orchidhaven, give no warranty, express or implied, as to the productiveness of any of the plants we sell and will not be in any way responsible for the crop. Our liability in all instances is limited to the purchase price of these plants.

CATTLEYA CULTURE

FOR THE USE of those who are interested in Cattleya culture, Orchidhaven is glad to furnish this information which is based on many years of practical experience.

HUMIDITY. A relative humidity between 65 and 80 has been found best. This may be provided by a small greenhouse, or a Wardian Case. In some climates, it is possible to provide for this humidity factor in the out-of-doors, using tree shade or a lath house. If this is done, a structure whose sides are screened in as a means of shedding the rain is best.

TEMPERATURE. Orchidhaven, in northern New Jersey, maintains an artificial night temperature of 62 degrees Fahrenheit. This temperature can be raised by 15 degrees on cloudy days, or with the help of the sun on bright days as much as 25 degrees or more. It is hardly necessary to say that in any growing enclosure, the exchange of air provides carbondioxide, an element of air itself, from which the plant obtains nourishment in the daytime. Nevertheless, while air is admitted in sufficient quantity for the plant's proper nourishment, care should be taken not to create drafts. A draft may reduce the humidity about the Cattleya at too fast a rate, and, since humidity is an essential factor for the well-being of this plant, the exchange of air should be controlled with this factor in mind.

LIGHT. Experiments in the rhythm of flowering in this country and abroad have shown that light is a very important stimulus in flowering. Studies reveal that duration as well as intensity of light determine the time of flowering of some plants. In the successful growing of Cattleyas in greenhouses, shading should not be increased any more during the brighter summer months than to have it possible to discern contoured objects such as trees, chimneys, etc., from the interior.

In latitudes corresponding to Orchidhaven in northern New Jersey, clear glass may be used and all shade removed from greenhouses running north and south during the period between November 1st to February 15th (or March 15th, depending on conditions). You can set up the proper conditions to keep clear glass until March 15th if you are careful to regulate the air exchange and to damp down overhead at frequent intervals. These steps will keep the temperature sufficiently low while you expose the plant to maximum intensity and duration of light in this season; the result, as we have found at Orchidhaven, is beneficial to growth of the plant.

WATERING. The best plan to follow, with regard to watering in the containers, is to wait until the potting medium becomes quite crisp to the touch. But, if you are in doubt about this degree of crispness, it would be better to wait a day or two longer. More harm is done by over-watering than under-watering. Over-watering tends to rot and eradicate roots. Keep-

ing a plant somewhat dry has the effect of promoting root action. However, it must be remembered that during the growing season, every orchid plant requires considerably more water in order to maintain its growth.

POTTING. Plants in all sizes should be potted very firmly. Pots should contain about $\frac{1}{3}$ crock. Our experience at Orchidhaven is that the $\frac{3}{4}$ size pots, or Azalea pots from 5 inches and up, are best because they have a larger bearing surface on the bench—providing greater stability, especially when the plant is tall. It is generally unwise to divide plants down lower than four-leaf bulbs. As a matter of sound practice, a fair amount of the old compost should be left on the plant so that it has sufficient substance until new roots are made. Rooting is fostered by keeping a plant on the dry side because roots grow from plants that are seeking moisture. After the roots are well set, watering can be gradually increased in order to fatten the bulbs and leaves as a means for obtaining a fine crop of flowers.

When buds are starting up the sheath, caution should be taken in watering and temperature control. Over-watering or chilling the plant at this stage may blast the buds.

The plant should always be kept well to the rear of the pot in order to leave plenty of growing space in the pot. It is important for the *Cattleya* grower to keep in mind the danger of over-potting. If there is a question about the size of the pot, be sure to choose the smaller one; it is always better to pot an extra time than to over-pot—besides, the watering of the plant becomes a more simple operation. Pots which are not too hard burned should be selected for orchid growing. A more porous pot helps the water and air to filter through the sides more readily than a hard burned pot.

SEEDLING REPOTTING. At Orchidhaven, we generally use peat of the yellow or brown type as being the best under most conditions. In most instances—especially in the case of seedlings—it is not necessary to remove any peat. You can merely “drop the plant on,” placing the plant to the rear of a slightly larger pot and jamming peat in the extra space. In the case of small seedlings, the most effective method is not to remove any of the old peat in the various repottings until the plant is large enough to bloom. This gives the plant an opportunity to develop without any hindrance.

Wire stakes are advised as supports for leaves and bulbs. Four-strand green cotton twine is recommended for tying to the stake. Be careful not to tie the leaves too tightly toward the stake.

SHADING. The various methods by which you can obtain satisfactory shading include slats, aluminum cloth, and a number of mixtures applied on the exterior of the glass. This last method is employed for shading at Orchidhaven. We select naphtha and white lead (soft paste), mixing these in the following manner: 8 pounds of white lead to 8 gallons of naphtha with a $3\frac{1}{2}$ inch flower pot of linseed oil. Later in the season, when greater opaqueness is needed on the exterior to cut down radiation of light, the formula is changed to $12\frac{1}{2}$ pounds of white lead to 8 gallons of naphtha

with a 3½ inch pot of linseed oil. At the beginning of the summer, when even more shade is required, the amount of white lead in this formula is increased to 25 pounds. From that time on, we do not add any oil and gradually cut down on the weight of the white lead. This formula will bear the application of judgment since the amount of shade needed varies with location and climate.

It is far better to apply the mixture to the exterior of the house in frequent, thin coats than to make heavy applications. In the final analysis, heavy applications may defeat the purpose of proper shading and are difficult to remove.

The successful growth of Cattleyas depends to a large degree on the light which these plants receive. Light should be admitted to the point of turning the leaves a light yellow-green color. If one or two leaves are burned about the time shading is first applied or when shading is taken off or when heavier application is needed, you will know that you are giving the plants the maximum amount of light.

These suggestions are offered on the basis of the successful methods developed over a period of years at Orchidhaven. The growth of Cattleyas requires only simple, basic rules. The magnificent blooms which these plants produce are a rewarding experience for every one who enjoys the thrill of seeing fine and beautiful flowers grow under watchful care. It is a creative work which repays the amateur in many happy hours.

We at Orchidhaven are always glad to share with you our knowledge and experience in growing Cattleyas. Do not hesitate to write to us about any problem of growing. Moreover, Orchidhaven's doors are always open to you. We cordially invite you to visit us at any time.



